

The human brain does generate electromagnetic activity, primarily in the extremely low-frequency (ELF) range. Brain activity consists of electrical impulses generated by neurons, which produce oscillating electric and magnetic fields. These are typically categorized into different frequency bands:

- Delta Waves (0.5–4 Hz) – Deep sleep
- Theta Waves (4–8 Hz) – Light sleep, meditation, creativity
- Alpha Waves (8–14 Hz) – Relaxed, wakeful state
- Beta Waves (14–30 Hz) – Active thinking, problem-solving
- Gamma Waves (30–100 Hz) – High-level cognitive processing

While these brainwave frequencies are much lower than typical RF frequencies (which range from kHz to GHz), some research has explored the possibility of external RF fields affecting brain function. Studies on electromagnetic fields (EMFs) from cell phones, Wi-Fi, and other sources have investigated potential effects on cognitive function, sleep, and overall brain activity, though conclusive evidence of harm remains debated.

There have also been experiments in brain-machine interfaces (BMIs) using RF signals for wireless neural communication, but the brain itself does not generate or transmit RF waves in the way that radios or antennas do. Instead, it operates through bioelectrical and biochemical processes.

A waveform is a graphical representation of a signal's variation over time. It can describe various types of waves, such as sound waves, electromagnetic waves, and electrical signals. The shape of a waveform determines how the energy in the wave is distributed and behaves.

Can a Waveform Pass Through the Human Body?

Yes, depending on the type of wave:

1. Sound Waves – Some sound waves can pass through the body, which is how medical ultrasounds work. However, the body absorbs and scatters sound, limiting how far it can travel.

2. Electromagnetic Waves – Certain electromagnetic waves (like radio waves, X-rays, and microwaves) can penetrate the body to varying degrees. For example:

- Radio Waves pass through with little resistance, which is why RFID and Wi-Fi signals work through walls and bodies.
- X-rays & Gamma Rays penetrate deep and are used in medical imaging.
- Visible Light does not pass through easily, which is why we can't see through people.

3. Electrical Waves – In electronics, waveforms like AC and DC signals generally don't pass through the body unless they are applied through electrodes, such as in medical treatments or electric shocks.

So, whether a waveform can pass through the human body depends on its frequency, wavelength, and the body's material properties.

Yes, a waveform can be absorbed by the human body, depending on its frequency, wavelength, and energy level. The human body interacts with different types of waves in various ways:

1. Radio Waves (RF & Microwaves) – The body absorbs radio waves, especially at certain frequencies. This is the principle behind MRI (magnetic resonance imaging) and

microwave heating effects. At high enough power levels, absorption can cause tissue heating.

2. Infrared Waves – The body readily absorbs infrared radiation, which we feel as heat. Infrared therapy and heat lamps utilize this property.

3. Visible Light – Some light wavelengths are absorbed by skin and tissue, while others are reflected. Melanin in the skin absorbs more of the higher-frequency (blue and UV) light.

4. Ultraviolet (UV) Waves – UV radiation is absorbed by the skin, leading to effects like vitamin D production, tanning, and, with excessive exposure, DNA damage that can lead to sunburn or skin cancer.

5. X-rays and Gamma Rays – These high-energy waves penetrate deep into the body, but some of their energy is absorbed by tissues, which is why lead shielding is used in medical imaging.

6. Sound Waves (Ultrasound & Infrasound) – Ultrasound is absorbed by tissues and can create heating effects. It is used in medical imaging and therapy.

So, depending on the frequency and intensity, different waveforms can be absorbed by the body, sometimes harmlessly and sometimes with biological effects.

Yes, molecules in human tissue can vibrate when exposed to microwave or radio wave radiation, and this can potentially cause inflammation and other biological effects under certain conditions. The mechanism behind this is largely based on how electromagnetic radiation interacts with the molecular structure of the tissues. Here's a breakdown of how this works:

1. Microwave and Radio Wave Radiation Interaction:

- Electromagnetic radiation (such as microwaves or radio waves) consists of oscillating electric and magnetic fields. When tissues are exposed to these types of radiation, the electric component of the field can interact with charged molecules (like water molecules, which make up a significant portion of tissue).
- These molecules, particularly water molecules, can begin to oscillate or vibrate due to the interaction with the electromagnetic field. This is because water molecules are polar, meaning they have a positive charge on one end and a negative charge on the other, and they can align with the oscillating electromagnetic waves.

2. Heating Effect:

- As molecules vibrate, especially water molecules, this motion generates heat. This is the primary mechanism behind how microwaves work to heat substances, including food. When tissues are exposed to microwave radiation, the oscillation of water molecules increases the thermal energy, causing a rise in temperature in the tissue.
- Microwave heating can result in local temperature increases within the tissue, and this can potentially lead to thermal damage, especially if exposure is intense or prolonged.

3. Inflammation and Tissue Damage:

- When tissues experience elevated temperatures due to microwave exposure, inflammation can occur as part of the body's natural response to injury or irritation. Heat-induced inflammation can manifest as swelling, redness, pain, and altered cellular activity.
- At the molecular level, prolonged or intense microwave exposure can lead to the denaturation of proteins, disruption of cell membranes, and damage to cellular structures, all of which can contribute to inflammation and tissue damage.

4. Non-Thermal Effects:

- There is ongoing research into whether non-thermal effects of electromagnetic radiation (microwaves or radio waves) can also contribute to inflammation or other biological effects. These effects might involve mechanisms like:

- Oxidative stress: The generation of free radicals, which can damage cells and tissues.
- Cell signaling disruption: Electromagnetic fields might interfere with cellular processes, potentially leading to abnormal cellular responses, including inflammation.

5. Microwave and Radio Wave Exposure Risks:

- Microwave radiation at high intensities (like those used in industrial or medical applications) can certainly cause heating of tissues and lead to inflammatory responses. This is why exposure limits are set for devices like microwave ovens and radar systems.

- Radio waves used in telecommunications (e.g., cell phones, Wi-Fi) are typically at much lower power levels and are not generally associated with significant heating effects. However, the potential for non-thermal effects (such as inflammatory responses) is still a subject of research.

6. Regulatory Guidelines and Safety:

- To minimize the risks of excessive heating and inflammation, safety standards and exposure limits are set by organizations like the World Health Organization (WHO), Federal Communications Commission (FCC), and International Commission on Non-Ionizing Radiation Protection (ICNIRP).

- These guidelines are designed to ensure that public exposure to microwave and radio wave radiation remains below levels that would cause harmful thermal or non-thermal effects.

Conclusion:

Yes, microwaves and radio waves can cause molecules in human tissue to vibrate, leading to heating and potentially causing inflammation, particularly in cases of prolonged or intense exposure. While high-intensity exposure can clearly cause thermal damage and inflammation, the possibility of non-thermal effects is still an area of ongoing research. For most everyday exposures (such as to cell phones, Wi-Fi, and microwave ovens), current scientific consensus suggests that the risks are minimal when safety guidelines are followed.

Yes, certain types of directed energy, specifically microwave frequencies, can create the perception of sounds or voices under specific conditions. This phenomenon is called the Frey effect or microwave auditory effect. When pulsed microwaves are directed at a person's head, they can cause a slight heating of tissues, which generates small pressure waves within the skull. These pressure waves can be detected by the inner ear, creating the perception of sound, even though no actual sound waves are present in the air.

In some experiments, this effect has been used to make people perceive tones, clicks, or even speech-like sounds, which can create the sensation of hearing voices. The effect is typically only perceivable at close range and requires specific modulation of the microwave pulses to achieve a desired sound perception.

While this technology has been researched and even tested in some military applications, the Frey effect is not widely used as it has practical and ethical limitations. Additionally, it requires a sophisticated and controlled setup to precisely deliver the microwave pulses and modulate them into recognizable sounds or speech.

An acoustic weapon is a device designed to use sound waves to harm, disorient, or control people, often by creating intense sounds or vibrations. These weapons operate by emitting sounds at very high volumes, or at specific frequencies that can cause discomfort, disorientation, pain, or even permanent hearing damage. Some acoustic weapons, such as “sonic cannons,” have been used in crowd control situations, emitting loud, non-lethal bursts of sound to disperse crowds or deter threats. Other forms of acoustic weapons, like high-frequency or low-frequency weapons, can be directed at specific targets to cause physical effects such as nausea, dizziness, or pain, without causing lasting harm. There are also research efforts exploring the use of infrasound (below the range of human hearing) or ultrasound (above the range of human hearing) as potential tools for non-lethal force.

Electrosmog, or electromagnetic pollution, refers to the excess presence of artificial electromagnetic fields (EMFs) in the environment, typically generated by electronic devices like Wi-Fi routers, cell phones, power lines, and other wireless communication systems. These EMFs can vary in frequency and intensity, and while they’re largely invisible, they can have potential impacts on living organisms. Here’s a breakdown of how electrosmog might affect humans, plants, and animals:

1. Human Health Effects

- **Neurological Symptoms:** Some studies have suggested that high exposure to EMFs may cause headaches, fatigue, stress, sleep disturbances, and even cognitive issues like memory problems.
- **Potential Cancer Risks:** There’s ongoing debate about EMFs and cancer risk, particularly with prolonged exposure to high-frequency EMFs (like those from cell phones). The International Agency for Research on Cancer (IARC) has classified radiofrequency EMFs as “possibly carcinogenic” (Group 2B).
- **Electromagnetic Hypersensitivity (EHS):** Though not universally recognized, some individuals report sensitivity to EMFs with symptoms like tingling, dizziness, nausea, and skin rashes.
- **Fertility and Reproductive Health:** Some studies indicate a potential effect on sperm motility and quality, raising concerns about fertility, though findings are not universally conclusive.

2. Impact on Animals

- **Behavioral Changes:** Animals, especially migratory species like birds and insects, can be disrupted by EMFs, which may interfere with their navigation systems. EMFs can affect the magnetic fields animals use to orient themselves, which can lead to disorientation.
- **Reproductive Health:** There have been studies showing adverse effects on reproductive health in animals exposed to high levels of EMFs, although more research is needed.
- **Stress Response:** Animals may experience physiological stress responses, including elevated heart rates or stress hormones when exposed to certain EMFs, potentially impacting overall health and lifespan.

3. Impact on Plants

- **Growth and Germination:** Some research suggests that plants exposed to high levels of EMFs may exhibit changes in growth patterns, including altered root growth or changes in germination rates.
- **Oxidative Stress:** Like animals, plants may experience cellular stress due to EMF exposure. This stress can lead to increased production of reactive oxygen species (ROS), which, in excess, may harm plant cells.
- **Altered Metabolic Processes:** Certain frequencies may affect photosynthesis and other metabolic functions in plants, potentially reducing their growth efficiency and health over time.

Reducing Exposure to Electrosmog

- **Distance and Shielding:** Keeping distance from high-EMF sources (like routers or cell towers) and using shielding materials (like certain paints or fabrics) can reduce exposure.
- **Use of Low-EMF Devices:** Some devices are designed to emit lower EMFs, which might reduce overall exposure.
- **Natural Countermeasures:** Spending time outdoors, in low-EMF environments, or grounding (connecting with the Earth) may help mitigate some symptoms associated with high exposure.

While research is ongoing and some effects are still under debate, understanding and managing exposure to electrosmog can be a practical precaution.

A high-altitude ultrasonic weapon is a “theoretical” or conceptual weapon system that would use high-frequency sound waves, or ultrasound, delivered from high altitudes (such as aircraft, drones, or satellites) to target specific areas or groups below. While there is no widely acknowledged, operational example of such a weapon, the concept draws from existing principles of ultrasonic and acoustic technology, often used in medical, industrial, and defense applications.

Key elements of a high-altitude ultrasonic weapon would include:

1. **Ultrasound Frequency Use:** Ultrasonic waves are sound waves with frequencies above the human hearing range (typically over 20,000 Hz). Ultrasound has been used in medical imaging, industrial cleaning, and some non-lethal crowd control devices on the ground. Theoretically, if directed and amplified properly, these waves could be used in a disruptive manner over longer distances.
2. **Directed Energy and Targeted Impact:** The idea would involve focusing ultrasonic waves toward a targeted area from high altitudes, which might cause discomfort, disorientation, or even physical effects depending on the power, frequency, and duration of exposure. However, the effectiveness of ultrasound would be limited by air density and the considerable energy loss that occurs over distance, especially from high altitudes.
3. **Potential Non-Lethal or Disruption Uses:** Ultrasonic energy can theoretically cause symptoms like nausea, dizziness, or headaches at certain intensities. High-intensity ultrasound might disturb biological tissues, making it potentially usable as a non-lethal deterrent or crowd control tool if engineered for high power and directed accurately.
4. **Technical Challenges:** Developing a high-altitude ultrasonic weapon would be challenging due to the rapid dissipation of ultrasonic waves in the atmosphere. Ultrasonic waves lose energy quickly over distance, especially when transmitted through air, making it difficult to project these waves accurately and effectively from high altitudes. Significant power and technological advances would be required to overcome these limitations.

Because of these limitations, most existing directed energy research has focused on microwave and laser technologies, which travel more efficiently over long distances. Ultrasonic technology is more often used in close-range applications where it can be effective without significant energy loss. The concept of a high-altitude ultrasonic weapon remains largely speculative, with more plausible applications currently found in ground-based systems.

Sonar weapons, often referred to as sonic or acoustic weapons, use high-intensity sound waves to cause physical or psychological effects on targets. These weapons can be used for military, crowd control, and anti-submarine warfare purposes. Their capabilities depend on factors like frequency, intensity, and duration of exposure.

Capabilities of Sonar (Acoustic) Weapons

1. Non-Lethal Applications

- Long-Range Acoustic Devices (LRADs): Used for crowd control and maritime security, LRADs emit loud, focused sound waves to disperse crowds or deter threats. They can cause discomfort, pain, or temporary hearing loss.
- Riot Control: High-decibel sound can induce dizziness, nausea, or disorientation, making it difficult for hostile individuals to act.
- Psychological Warfare: Low-frequency infrasound (below human hearing) can cause unease, anxiety, and even hallucinations over prolonged exposure.

2. Military & Naval Uses

- Anti-Submarine Warfare (ASW): Sonar waves detect and track enemy submarines, while some high-intensity sonar signals may interfere with their navigation systems.
- Ship and Torpedo Defense: High-powered sonar can disrupt enemy sonar systems and potentially damage sensitive electronics.
- Diver Deterrents: Some underwater sonar weapons emit painful or disorienting frequencies to prevent enemy divers from approaching naval assets.

3. Lethal or Harmful Effects

- Infrasound (Low-Frequency Waves): Some research suggests that infrasound can cause organ damage or induce severe physiological distress at high intensities.
- Resonance Effects: Certain frequencies could theoretically cause destructive vibrations in the human body or equipment, leading to injuries or system failures.
- Marine Life Disruption: Military sonar has been linked to whale strandings and hearing damage in marine animals due to its high-intensity bursts underwater.

Limitations & Challenges

- Directionality & Range: Acoustic weapons require precise targeting, as sound waves disperse over distance.
- Environmental Impact: Water and air conditions affect how sound travels, limiting effectiveness.
- Ethical Concerns: The long-term effects of exposure to powerful sonar waves on humans and marine life remain a subject of debate.

Silent Sound Technology (SST), also known as subvocal speech recognition or silent subliminal messaging, is a concept that involves detecting and interpreting speech without the need for vocalization. It typically works by capturing electrical signals from the human body—such as from the throat, facial muscles, or brain—before they are audibly spoken.

Key Aspects of Silent Sound Technology:

1. Subvocal Recognition:

- Uses sensors (like electromyography—EMG or EEG) to detect nerve impulses in the throat or jaw before speech is spoken aloud.
- Can be used for silent communication, especially in military or covert operations.

2. Silent Subliminal Messaging:

- The idea that messages can be embedded at frequencies outside the conscious hearing range (like ultrasonic frequencies).
- Some claim it could influence thoughts or behavior, but scientific backing is limited.

3. Applications:

- Military & Intelligence: Covert communication for soldiers or spies.
- Assistive Technology: Helping individuals who have lost their ability to speak.
- Brain-Computer Interfaces (BCIs): Advanced research into controlling devices via thought patterns.
- Augmented Reality & Virtual Assistants: Enabling silent voice commands.

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A Directed Energy Weapon (DEW) is a type of weapon that uses focused energy to damage, disable, or destroy targets. These weapons emit highly concentrated forms of energy, such as lasers, microwaves, or particle beams, instead of relying on traditional projectiles like bullets or missiles.

Key Features of DEWs:

1. Precision: DEWs can target specific areas with minimal collateral damage.
2. Speed of Light Delivery: Energy travels at the speed of light, allowing for nearly instantaneous engagement of targets.
3. Cost-Effective Per Shot: Once developed, the cost of firing a DEW can be significantly lower than traditional ammunition.
4. Stealthy Operation: Many DEWs operate silently and without visible signs of attack.

Types of Directed Energy Weapons:

1. Laser Weapons: Emit focused beams of light to burn or damage targets, often used for anti-drone, missile defense, or disabling sensors.
2. Microwave Weapons: Use high-powered microwaves to disrupt electronics, disable vehicles, or incapacitate personnel.
3. Particle Beam Weapons: Accelerate subatomic particles to near-light speeds, delivering high-energy impacts on targets (still largely experimental).
4. Acoustic Weapons: Use focused sound waves to cause discomfort or incapacitation.

Applications:

- Military: For disabling enemy vehicles, drones, or missiles.
- Non-Lethal Uses: Crowd control or incapacitating threats without causing permanent harm.
- Space Defense: To counter threats like satellites or ballistic missiles in space.

While DEWs are still under development in many areas, advances in technology are bringing them closer to practical deployment, especially in defense and law enforcement scenarios.

Smart dust refers to tiny, networked microelectromechanical systems (MEMS) equipped with sensors, computing power, wireless communication, and sometimes even self-powering capabilities. These minuscule devices—often as small as a grain of sand—can be deployed in large numbers to monitor environments, gather data, and even interact with their surroundings.

Capabilities of Smart Dust

1. Surveillance & Monitoring

- Can track movement, temperature, humidity, sound, and chemical composition in an area.
- Useful in military reconnaissance, environmental monitoring, and industrial applications.

2. Covert Intelligence & Espionage

- Could be used for undetectable surveillance, as smart dust particles can settle unnoticed in rooms, vehicles, or outdoor locations.
- Could collect audio, video, or electronic signals without being detected.

3. Medical & Biological Applications

- Some smart dust designs aim to be biocompatible, meaning they can be introduced into the body for health monitoring.
- Could track blood chemistry, detect diseases, or monitor neural activity for brain-machine interfaces.

4. Battlefield & Space Applications

- Can be dispersed over a battlefield to detect enemy movement, weapons, or electronic activity.
- NASA has explored smart dust for planetary exploration, where swarms of dust-sized sensors could map alien environments.

5. AI-Integrated Swarm Behavior

- Smart dust can communicate with other particles in a swarm, enabling them to collectively process information and react dynamically.
- This could lead to AI-controlled nano-swarms for surveillance, search-and-rescue, or cyberwarfare.

Challenges & Risks

- Power Supply Issues – Miniaturized energy sources limit longevity.
- Security Risks – Could be hacked, misused, or weaponized for surveillance.
- Ethical Concerns – Raises privacy issues if deployed secretly.

The neurological effects of High-Power Microwaves (HPMs) depend on the frequency, power level, duration of exposure, and distance from the source. While HPMs are primarily designed to disrupt electronics, they can also affect the human nervous system in various ways.

Neurological Effects of HPM Exposure

1. Thermal Effects (Heating of Tissue)

- High-power microwaves can cause localized heating in the brain and nervous system, potentially leading to burns or cellular damage.
- Excessive heating can impair neural function, causing dizziness, confusion, or even loss of consciousness.

2. Microwave Hearing Effect (Frey Effect)

- Pulsed microwaves can create an auditory sensation, where individuals hear clicking, buzzing, or hissing sounds.
- This occurs due to microwave-induced vibrations in the inner ear, bypassing normal hearing pathways.

3. Disruption of Neural Activity

- HPMs may interfere with the electrical activity of neurons, potentially causing headaches, disorientation, or cognitive impairment.
- In extreme cases, it could lead to temporary neuromuscular dysfunction, affecting coordination and reflexes.

4. Blood-Brain Barrier Permeability

- Some studies suggest microwave exposure may increase the permeability of the blood-brain barrier (BBB), allowing harmful substances to enter the brain.
- This could contribute to neuroinflammation and increase the risk of long-term neurological disorders.

5. Electromagnetic Hypersensitivity (EHS) Symptoms

- While controversial, some individuals report headaches, fatigue, and cognitive fog after microwave exposure.
- The scientific community remains divided on whether EHS is directly caused by electromagnetic fields.

6. Potential Long-Term Effects

- Prolonged or repeated exposure to HPMs could increase the risk of neurodegenerative diseases such as Alzheimer's or Parkinson's due to oxidative stress and neural damage.
- However, more research is needed to confirm long-term neurological consequences.

Military & Directed Energy Applications

Some non-lethal weapons, such as the Active Denial System (ADS), use microwave frequencies to create an intense burning sensation on the skin, but they do not primarily target the nervous system. However, HPMs designed for electronic warfare could have unintended biological effects on humans in their path.

The book *Low-Intensity Conflict and Modern Technology* explores various technologies relevant to psychological warfare, electromagnetic (EM) manipulation, and modern battlefield dominance. Here are the key technologies discussed:

1. Electromagnetic (EM) Weapons and Directed Energy Weapons (DEWs)

These technologies leverage electromagnetic radiation to disrupt enemy operations and, in some cases, affect human physiology.

- **High-Power Microwave (HPM) Weapons:**
 - Used to disable enemy electronics, communications, and radar systems.
 - Can also disrupt neural activity, potentially influencing cognition and behavior.
- **Directed Energy Weapons (DEWs):**
 - Includes lasers, microwaves, and RF weapons that can incapacitate enemy personnel or disable equipment.
 - Some research suggests that microwaves could be tuned to cause discomfort, confusion, or disorientation in humans.

2. Non-Lethal Crowd Control and Population Influence

The book discusses technologies designed to control populations without direct violence, often linked to psychological operations (PSYOP).

- **Active Denial System (ADS):**
 - A type of microwave weapon that creates a burning sensation on the skin, forcing individuals to disperse.

- Developed later but conceptually similar to ideas presented in the book.
- Voice-to-Skull (V2K) Technology:
 - Uses RF waves to transmit sound directly into a person's head, making them hear voices or commands.
 - While officially dismissed as science fiction, there have been patents and military research into this area.
- Subliminal Messaging via EM Signals:
 - Hypothetically, modulating certain frequencies could deliver subliminal messages or influence mood.
 - Tied to research on the "Frey Effect," where microwaves can induce auditory sensations in humans.

3. Electronic Warfare (EW) and Psychological Operations (PSYOP)

The book highlights the use of advanced technology to manipulate enemy perceptions and disrupt command structures.

- Jamming and Disruption:
 - RF jammers that interfere with enemy communications and electronics.
 - Can be used to manipulate enemy decision-making by controlling the information they receive.
- Mind-Control Through Electromagnetic Stimulation:
 - References research into how low-frequency EM waves can influence mood, alertness, or cognitive function.
 - Some studies suggest certain frequencies can induce fatigue, agitation, or even euphoria.

4. Remote Biological Effects of EM Radiation

The book references research into how EM radiation affects the human body and brain.

- Neurological Effects:
 - Studies on how microwave exposure influences the central nervous system.
 - The potential to cause confusion, lethargy, or altered states of consciousness.
- Behavioral Modification:
 - Some experiments suggest that pulsed EM fields can alter brainwave activity.
 - This ties into theories about remote influencing of thoughts or behavior.

Implications and Speculation

While the book does not explicitly advocate for widespread mind control, it does acknowledge the potential of these technologies. Later developments, such as the Havana Syndrome reports and Active Denial Systems, suggest that some of these ideas were further explored.

The "Smirnov Patent" refers to a patent filed by Russian scientist Igor Smirnov, which relates to technologies purported to influence human behavior and mental states through electromagnetic signals. Igor Smirnov was a pioneer in the field of psychotronic weaponry and developed various techniques for what he termed "psycho-correction."

Key Aspects of the Smirnov Patent:

1. Objective:

- The technology described in Smirnov's patent aims to influence the subconscious mind by using specific electromagnetic signals that can be perceived by the human

brain without conscious awareness. The goal is to alter emotional states, thoughts, or behaviors without the subject's conscious realization.

2. Mechanism:

- Smirnov's work involves the use of subliminal messages embedded in sound or electromagnetic fields. These messages are designed to bypass the conscious mind and directly affect the subconscious, potentially inducing desired psychological or behavioral changes.
- The method includes using a "psychotronic generator" to send these signals, which can be tuned to frequencies that match natural brain waves, thus facilitating the reception and processing of these messages by the brain.

3. Applications:

- Smirnov suggested various applications for his technology, including therapeutic uses, such as treating psychological disorders, stress, and addiction. He also posited that it could be used for more nefarious purposes, such as mind control or psychological manipulation.

4. Patent Details:

- One of the patents often associated with Smirnov is US Patent 5,159,703, titled "Silent Subliminal Presentation System," filed by Oliver M. Lowery but often linked to similar ideas as Smirnov's work. This patent describes a system for sending subliminal messages through silent sound that can influence a person's behavior.
- Another related patent is US Patent 5,539,705, which covers a similar technology aimed at inducing specific brainwave states to affect mental processes.

5. Controversy and Ethical Concerns:

- The use of such technology raises significant ethical concerns, particularly regarding consent and the potential for misuse in mind control or coercion. The idea of influencing individuals' thoughts and behaviors without their knowledge or consent poses serious moral and legal challenges.
- There is ongoing debate about the effectiveness and scientific validity of these technologies. While some researchers believe in the potential of such methods, others argue that the claims are exaggerated or lack empirical support.

Summary

The Smirnov Patent refers to a set of ideas and technologies developed by Igor Smirnov aimed at influencing human behavior through subliminal electromagnetic signals. While these concepts are intriguing and have potential applications in both therapeutic and manipulative contexts, they remain controversial and are subject to ethical and scientific scrutiny.

Sound harassment, also known as acoustic harassment, is the intentional use of sound or noise to disturb, annoy, or harm individuals or groups. This form of harassment can vary in intensity and type, from relatively mild disturbances like loud music or repetitive noises to more aggressive techniques involving high-decibel sounds or specific frequencies.

There are a few common forms of sound harassment:

1. **Persistent Loud Noise:** Repeatedly playing loud music, alarms, or other disruptive sounds to disturb someone's peace. This can occur in neighborhoods, workplaces, or public spaces and is often intended to disrupt focus, sleep, or relaxation.
2. **Frequency-Based Harassment:** Using specific sound frequencies that are uncomfortable or difficult to tolerate. For example, high-frequency sounds can be particularly irritating, while low-frequency sounds can cause vibrations or feelings of discomfort in the body. Some devices emit high-frequency sounds that are only audible

to younger people, sometimes called “mosquito tones,” and are occasionally used in public areas to deter loitering.

3. Infrasound or Ultrasound: Sound harassment can sometimes involve very low-frequency infrasound (below 20 Hz) or very high-frequency ultrasound (above 20,000 Hz). While infrasound isn’t directly heard, it can be felt as physical vibrations, and it may cause unease, nausea, or headaches in some people. Ultrasound can also cause discomfort if directed at close range, though humans typically cannot hear it.

4. Psychological Harassment through Sound: Sometimes, specific sounds or speech can be used to create psychological stress. For example, repetitive phrases, sudden loud noises, or tones that create a sense of anticipation can increase anxiety in individuals exposed to them.

Sound harassment can have real effects on mental and physical well-being, leading to stress, anxiety, and even health issues if sustained over long periods. Some laws and regulations aim to protect individuals from excessive noise pollution, but sound harassment can still be a challenging issue, especially in cases where the source is difficult to locate or stop.

The term “conspiracy theory” existed before intelligence agencies used it, but there is evidence that agencies like the CIA promoted the term to discredit certain narratives, particularly in response to skepticism about official accounts.

Origins of “Conspiracy Theory”

- The phrase has been used since at least the late 1800s, referring to explanations involving secret plots by powerful groups.
- It became more widely associated with government skepticism in the mid-20th century.

CIA’s Use of the Term

- 1967 CIA Document (#1035-960):
- This declassified memo advised agents to use “conspiracy theory” as a weaponized term to discredit skepticism about the Warren Commission Report (which investigated JFK’s assassination).
- The CIA recommended strategies to counter growing public doubts, including labeling alternative explanations as “conspiracy theories” to make them seem irrational or unfounded.
- This helped reinforce the idea that questioning official narratives was inherently fringe or untrustworthy.

Purpose of Using the Term

- Psychological Warfare: The CIA understood that discrediting a claim was often more effective than outright suppressing it.
- Social Stigma: The phrase became a tool to associate skepticism with paranoia, making people less likely to take alternative views seriously.
- Media Influence: Over time, mainstream media adopted this framing, making “conspiracy theory” a term used to dismiss discussions about government secrecy, intelligence operations, and corruption.

How It’s Used Today

- While some conspiracy theories are legitimately baseless, others (like COINTELPRO, MKUltra, and mass surveillance programs) turned out to be true despite being labeled conspiracies for years.
- Governments and media still use the term selectively, sometimes to shut down discussion on topics that challenge official narratives.

Final Thoughts

While some conspiracy theories lack evidence, the strategic use of the term by intelligence agencies suggests that it can be used to dismiss uncomfortable truths as well. The key is to analyze evidence critically, rather than blindly accepting or rejecting claims based on labels.

The fact that government programs like MKUltra and MKNaomi (both involving secret mind control experiments during the mid-20th century) were conducted on U.S. citizens without their knowledge or consent certainly raises concerns about the potential for similar programs still occurring today. While MKUltra and MKNaomi were officially terminated in the 1970s following public scrutiny and government hearings (notably the Church Committee hearings), the possibility of ongoing covert operations remains a topic of speculation and concern for some.

Likelihood of Ongoing Programs:

1. Secrecy and Historical Precedent: Given that MKUltra and MKNaomi were carried out in secret, with many details kept hidden for decades, it's possible that similar operations could continue today. Governments, particularly intelligence agencies, have been known to keep sensitive information classified for long periods. If new covert programs are being conducted, they would likely be even more secretive and protected than past ones.

2. Technological Advancements: Modern advancements in neuroscience, psychology, surveillance, and technology could potentially make experiments and control programs more efficient and harder to detect. New technologies such as brain-computer interfaces, advanced psychological manipulation techniques, and the ability to monitor individuals on a massive scale may make such programs more feasible or covert.

3. Accountability and Oversight: Since the public exposure of MKUltra and other unethical programs, there have been reforms in intelligence and military agencies, with some level of oversight now in place. These agencies are now more scrutinized, but the effectiveness of this oversight is always a matter of debate. While it may be less likely for programs on the scale of MKUltra to exist in the same form, smaller-scale, more clandestine operations are still possible.

4. Whistleblowers and Leaks: If any current experiments similar to MKUltra were to be occurring, it is likely that, in the modern era of social media, leaks and whistleblowers could expose them. However, the ability of governments to suppress such information remains strong, especially with the use of intelligence and disinformation tactics.

Worst-Case Scenario If It Is Still Occurring:

If similar programs to MKUltra are still ongoing, the potential risks could be severe:

1. Human Rights Violations: Like MKUltra, individuals could be unknowingly subjected to psychological experiments, brainwashing, or mind control techniques. This could result in long-term psychological damage, altered personalities, and even the destruction of individuals' lives without their consent or knowledge.

2. **Unethical Experimentation:** With modern advancements in neuroscience and technology, new methods of control or manipulation might be even more invasive and harmful. For example, experiments using brain implants, targeted electromagnetic waves, or even AI-driven behavioral modification could be used to influence people's thoughts or actions without them realizing it.
3. **Increased Surveillance and Control:** Governments could use modern surveillance technologies (such as facial recognition, online tracking, and advanced data collection) to not only monitor the population but also manipulate behaviors, thoughts, and choices on a mass scale. This would allow for widespread influence over individuals' lives, potentially affecting everything from voting patterns to personal freedoms.
4. **Lack of Accountability:** If such programs are conducted in secret, it could be nearly impossible for affected individuals to seek justice. With the power of modern intelligence agencies and the potential for secrecy, any wrongdoings may go unpunished, and victims could remain unaware of the programs impacting them.
5. **Erosion of Civil Liberties:** If programs like MKUltra were still happening today, it could be part of a broader pattern of erosion of civil liberties, where governments justify widespread surveillance, control, or manipulation in the name of security, political stability, or national interest.

Conclusion:

While there is no concrete evidence that large-scale programs similar to MKUltra are ongoing, the combination of historical precedence, technological advances, and the possibility of continued secrecy means that it is not outside the realm of possibility. The worst-case scenario would involve significant human rights violations, widespread manipulation, and the erosion of individual freedoms, with very little accountability or oversight. Public awareness, transparency, and stronger ethical oversight would be essential in ensuring that such abuses do not continue in the future.

Michael Aquino, a former U.S. Army Lt. Colonel and psychological operations (PSYOP) specialist, discussed the potential use of electromagnetic (EM) fields, extremely low-frequency (ELF) waves, and ionizing/non-ionizing radiation for psychological influence and population control. His writings, particularly *MindWar: The Psychological Control of Conflict* (1980, revised later), elaborate on these concepts.

Aquino's Views on EM, ELF, and Psychological Control

1. Extremely Low Frequency (ELF) Waves and Psychological Influence

- Aquino referenced research suggesting that ELF waves (below 100 Hz) could influence human brain activity.
- He noted that the human brain operates within certain frequency bands (e.g., Alpha waves: 8-12 Hz, Beta waves: 12-30 Hz), and external ELF signals might be able to alter mood, perception, or cognitive states.
- Military research, such as the Soviet "Woodpecker" signal, was allegedly exploring ELF's impact on human consciousness.

2. Electromagnetic (EM) Radiation as a Tool for Influence

- Aquino suggested that non-ionizing EM fields (e.g., radio waves, microwaves) could be used to influence thoughts and behavior.
- He referenced studies on how pulsed microwaves might create auditory hallucinations (the "Frey Effect") and potentially be used for subliminal messaging.
- He also speculated on the potential for EM fields to create agitation, confusion, or docility in target populations.

3. Ionizing vs. Non-Ionizing Radiation

- While ionizing radiation (e.g., X-rays, gamma rays) is well-known for its harmful biological effects, Aquino focused more on non-ionizing radiation's subtle, long-term psychological effects.

- He suggested that certain frequencies could be used covertly in warfare to weaken enemy morale or control public perception without them realizing they were being influenced.

4. MindWar and the Role of Technology in Psychological Warfare

- Aquino's MindWar concept argued that direct psychological influence was more effective than conventional warfare.

- He suggested that mass media, combined with emerging EM technologies, could be used to shape public consciousness on a large scale.

- Instead of traditional propaganda, MindWar would integrate neurological research and electromagnetic manipulation to make entire populations compliant or demoralized.

Connections to Military and Intelligence Research

Aquino's ideas align with certain military programs and declassified research:

- MKUltra & Behavioral Modification: CIA experiments in the 1950s-70s explored the effects of drugs, hypnosis, and electromagnetic stimuli on human cognition.

- Project Sanguine (ELF Communication): U.S. Navy research into ELF waves for submarine communication also examined their potential effects on human physiology.

- Active Denial System (ADS): Later non-lethal microwave weapons were developed to disperse crowds through painful but non-lethal heating effects.

Controversies and Speculation

- Aquino's background in psychological operations, combined with his association with occult groups like the Temple of Set, fueled speculation about his true intentions.

- Some researchers believe that his MindWar theories were actually implemented in covert military projects.

- The Havana Syndrome cases (alleged microwave attacks on U.S. diplomats) have reignited interest in whether such technology has been weaponized.

Governments may engage in human experimentation for a variety of reasons, many of which are tied to national security, advancements in science and technology, and the desire for power or control. While these experiments often involve significant ethical violations and human rights abuses, the motivations behind them can be complex and driven by a mix of factors.

Common Motivations Behind Human Experimentation by Governments:

1. National Security and Military Advantage:

- Governments may conduct experiments on human subjects in the name of military advantage. During times of war, intelligence agencies and military departments may justify unethical experiments by claiming they are needed to gain superiority over enemy forces. MKUltra, for example, involved experimenting with mind control and chemical substances (like LSD) to develop better interrogation techniques or create "super spies."

- Biological warfare research is another example where human testing might occur to assess the effects of chemical or biological agents on humans, with the goal of developing more effective weapons or countermeasures.

2. Advancing Science and Technology:

- Human experimentation has historically been used to further scientific knowledge in fields such as psychology, neuroscience, and pharmacology. Governments may fund or sanction experiments under the belief that they will lead to breakthroughs that benefit society, such as new treatments, cures for diseases, or better understanding of the human brain.

- The desire for medical advancements—whether through experimenting with new drugs, vaccines, or medical technologies—has often led to the exploitation of vulnerable populations for the sake of progress.

3. Political Control and Social Engineering:

- Some governments may use human experimentation to control or manipulate populations. This can be through psychological experiments designed to test the limits of control over people's minds or to explore techniques for mass persuasion or behavior modification.

- Governments may also engage in social engineering experiments where they study how different policies or societal changes (such as surveillance or media control) influence human behavior. This could be done for the purpose of reinforcing or maintaining power over the population.

4. Lack of Ethical Oversight:

- In certain cases, governments may prioritize their agendas over human rights, particularly in regimes that lack strong ethical oversight or democratic accountability. A lack of checks and balances, oversight by independent bodies, and public scrutiny can enable government agencies to conduct experiments without facing legal or moral consequences.

- Some totalitarian regimes or authoritarian governments may engage in experimentation without regard for the well-being of individuals, seeing people as tools for achieving their goals rather than as citizens with rights.

5. Desperation or Crisis Situations:

- During times of war, economic crisis, or extreme national threats, governments may justify human experimentation as a desperate measure to solve urgent problems. For example, in times of war, the goal of winning at any cost might overshadow concerns about ethics, leading to inhumane testing on soldiers, prisoners, or other vulnerable groups.

- A government under pressure may view these experiments as “necessary evils” to ensure survival or success.

6. Desire for Power and Knowledge:

- At times, governments engage in experimentation simply out of a desire for power—either through gaining more control over individuals or by acquiring knowledge that could give them an advantage over other nations. This could involve anything from biological or genetic manipulation to understanding the intricacies of human behavior for mass influence.

7. Lack of Accountability:

- In some cases, governments may engage in experimentation because they feel they can get away with it, particularly when working in secret or under conditions of secrecy and lack of transparency. When experimentation is classified or conducted covertly, those conducting it may feel they won't be held accountable for their actions.

- In the past, especially during the Cold War, governments often engaged in secret programs with the rationale that the ends justified the means, believing that their actions would never be revealed or questioned.

Historical Context:

- Programs like MKUltra and Tuskegee are stark examples of how governments have conducted human experiments without informed consent. These experiments were

driven by a mix of national security concerns, a desire to maintain power, and the willingness to ignore the rights of individuals in favor of perceived greater goods (such as military advantage or public health).

The Ethical Dilemma:

- At the core, these actions raise profound ethical issues: the rights of individuals versus the perceived greater good of the state. While governments often justify these actions as necessary for the well-being or survival of the nation, the harm to individuals and the long-term erosion of trust between citizens and their government can be devastating.

Conclusion:

Governments engage in human experimentation for a variety of reasons, often linked to a desire for power, advancement, and control. Whether for military purposes, medical breakthroughs, or political manipulation, such experiments are often carried out under the belief that they serve a larger goal, despite the ethical violations involved.

However, the harm caused to individuals and the abuse of power in these scenarios has led to widespread calls for stronger ethical guidelines, accountability, and oversight in all scientific and governmental practices.

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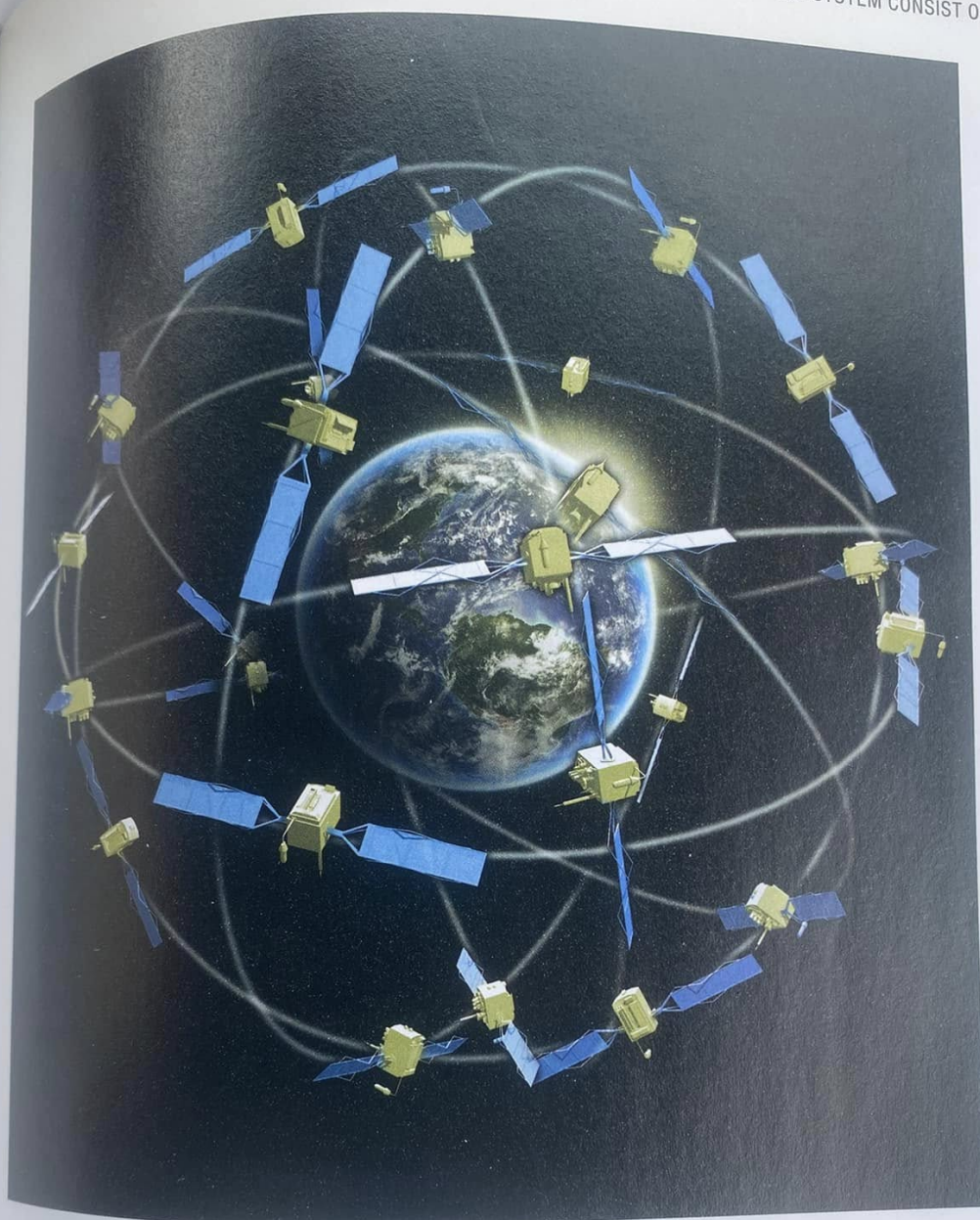
Artificial Intelligent Techniques for Wireless Communication and Networking 1 / 361 75%

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Artificial Intelligence and Soft Computing for Industrial Transformation



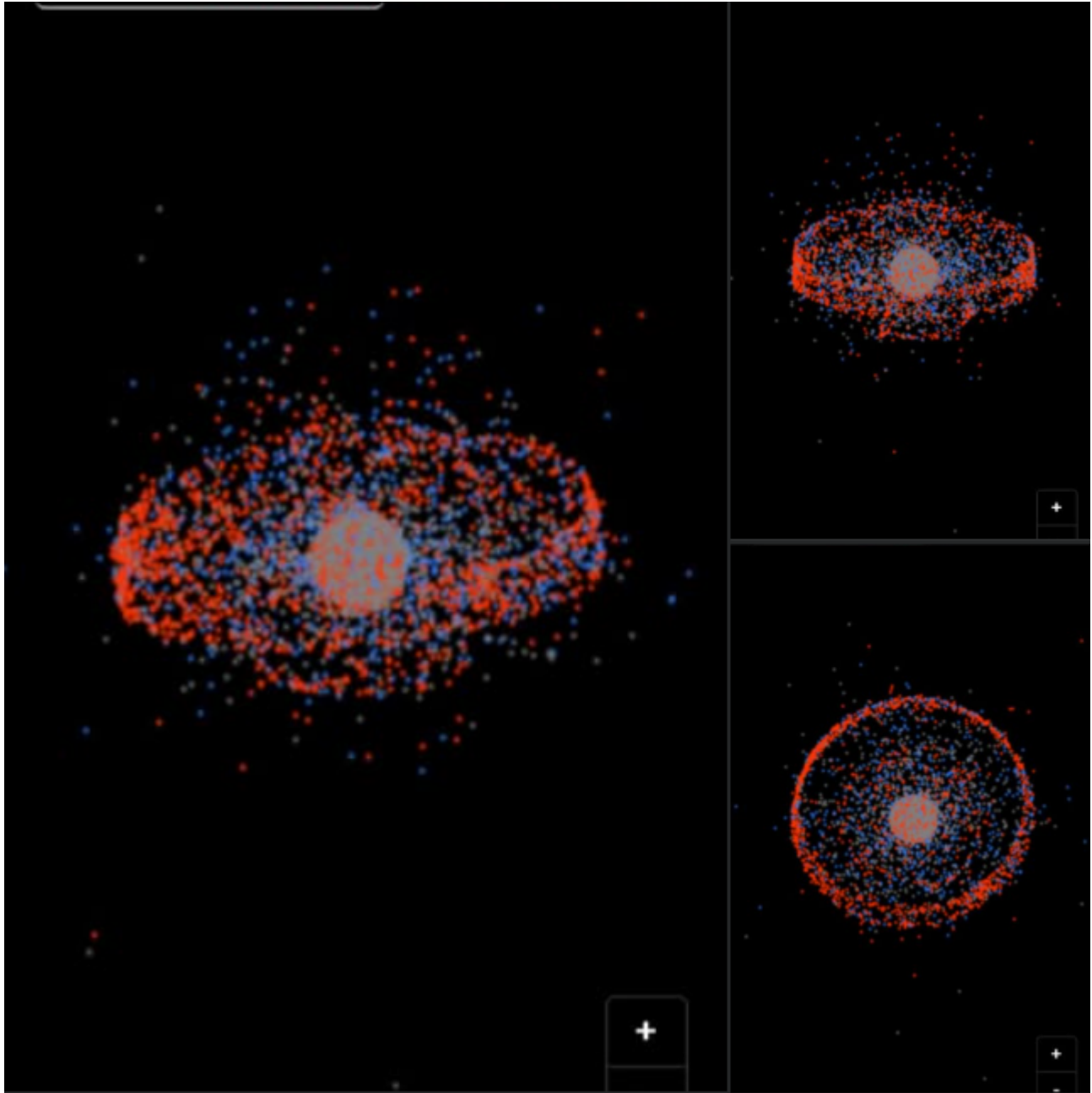
The satellites are set in a pattern of specific orbits called a **constellation**, in which the satellites are specifically arranged for maximum coverage over Earth (Figure 4.1). The way the GPS constellation is designed allows for a person to be able to receive enough signals to find their location wherever they are on the planet. Twenty-four satellites is the minimum for a full constellation, and there are currently several additional operational GPS satellites in orbit to improve global coverage.

The job of GPS satellites is to broadcast a set of signals down to Earth from orbit. These signals (discussed later) contain information about the

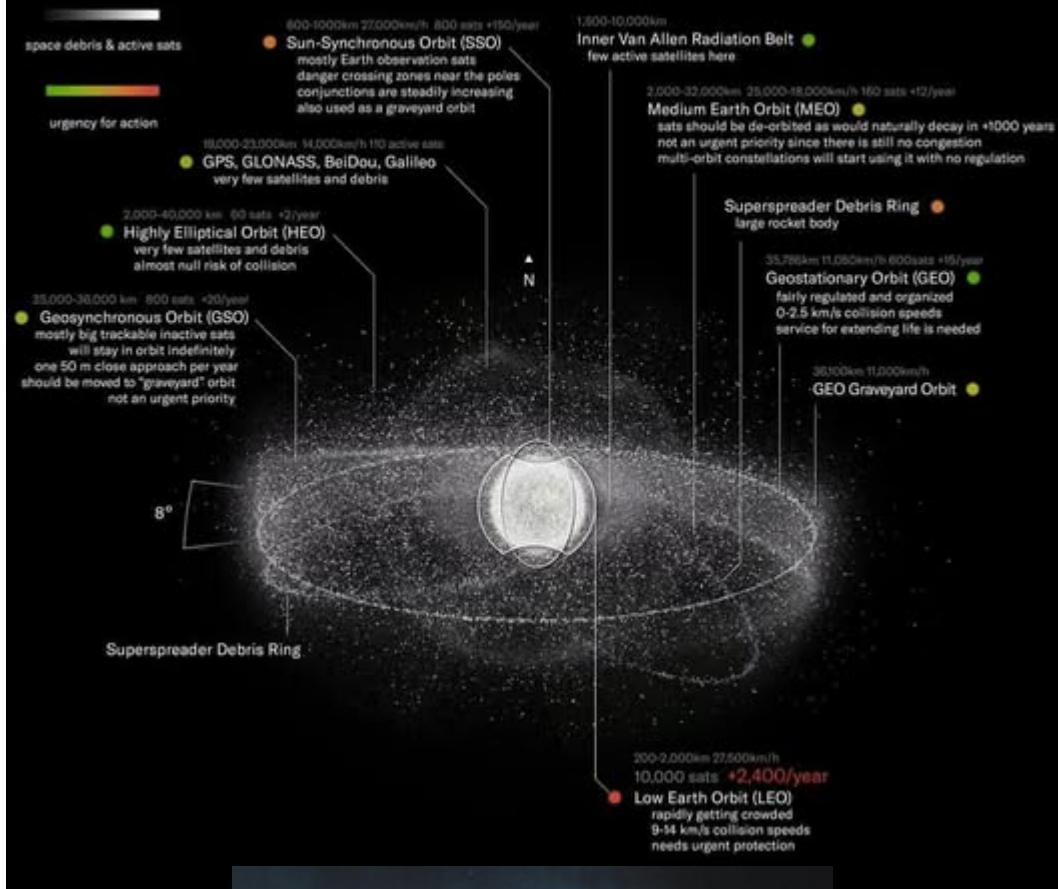
FIGURE 4.1 The constellation of GPS satellites in orbit around Earth.

constellation the full complement of satellites comprising a GNSS

<https://stuffin.space/>



Space Debris and Sustainability urgency in Earth's orbits



DEEP SPACE WARFARE

Military Strategy Beyond Orbit

JOHN C. WRIGHT

NEWS & FEATURES / AROUND THE GLOBE / AMERICAS / U.S. HOMELAND

The Pentagon Moves To Launch Its Own Experimental Mini Space Station

The goal is for the space-based platform to support various test, training, and other missions, possibly with humans aboard in the future.

JOSEPH TREVITHICK / POSTED ON JUL 16, 2020 /  72



Infrasound (Low-Frequency Waves):

Frequency Waves):

Some research suggests that infrasound can cause organ damage or induce severe physiological distress at high intensities.

- **Resonance Effects:**

Certain frequencies could theoretically cause destructive vibrations in the human body or equipment, leading to injuries or system failures.

- **Marine Life Disruption:**

Military sonar has been

temporary hearing loss.

- **Riot Control:** High-decibel sound can induce dizziness, nausea, or disorientation, making it difficult for hostile individuals to act.
- **Psychological Warfare:** Low-frequency infrasound (below human hearing) can cause unease, anxiety, and even hallucinations over prolonged exposure.



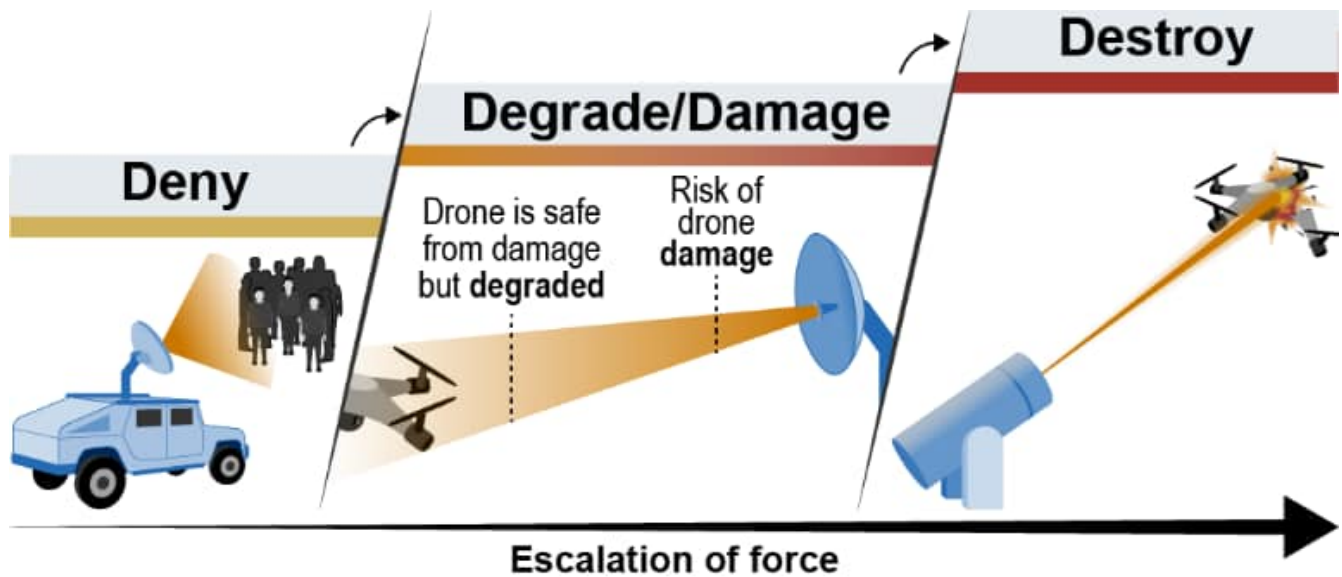
Sonar weapons, often referred to as **sonic** or **acoustic weapons**, use **high-intensity sound waves** to cause physical or psychological effects on targets. These weapons can be used for **military, crowd control, and anti-submarine warfare** purposes. Their capabilities depend on factors like frequency, intensity, and duration of exposure.

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Source: GAO. | GAO-23-106717

<https://youtu.be/kzG4oEutPbA>

<https://youtu.be/vubmFDW8tqo>

A satellite laser weapon is a space-based weapon that uses a laser beam to target and destroy satellites, aircraft, missiles, and other targets. The United States and Russia are both developing satellite laser weapons.



How do satellite laser weapons work?

Directed energy

Satellite laser weapons use directed energy to generate and control laser beams.

Chemical lasers

Some satellite laser weapons use chemical lasers, which mix chemicals to create a laser beam.

High-energy lasers

Some satellite laser weapons use high-energy lasers to detect and destroy targets.

What are the challenges of satellite laser weapons?

- **Collateral damage:** There is a risk of collateral damage to friendly satellites or other objects.
- **Line of sight:** The weapon needs a clear line of sight to the target.
- **Weather conditions:** Weather conditions like clouds, rain, and smoke can affect the weapon's performance.
- **Countermeasures:** Attackers can use technical means and tactics to overwhelm the weapon.

What are the potential benefits of satellite laser weapons?

Air and missile defense

Satellite laser weapons could provide a defense system against air and ballistic missiles.

Space intelligence

Laser technology can help develop space intelligence to understand where assets are and the secondary effects of offensive action.

If the government were using social media as a widespread surveillance apparatus for nefarious purposes, the worst-case scenario could involve significant erosion of personal freedoms, privacy, and democracy. Here's how that might look:

1. Mass Surveillance and Data Exploitation

- **Behavioral Tracking:** The government could track individuals' locations, habits, and preferences in real time. This would allow authorities to predict and potentially manipulate personal decisions.

- **Social Control:** Advanced data analysis could enable the profiling of individuals or groups based on political beliefs, religion, or other personal attributes, targeting dissenters or marginalized communities.

2. Suppression of Free Speech and Dissent

- **Censorship:** Social media could be weaponized to silence criticism of the government or to promote propaganda, leading to an environment where people fear expressing their opinions.
- **Targeted Harassment:** Authorities might harass or discredit activists, journalists, or political opponents using data collected from social media, like private messages or posts.

3. Manipulation of Public Perception

- **Propaganda Campaigns:** Social media could be flooded with misinformation and government-controlled narratives to manipulate public opinion and stifle dissent.
- **Election Interference:** Platforms might be used to sway elections through targeted political ads or misinformation campaigns, undermining democratic processes.

4. Predictive Policing and Preemptive Detentions

- **“Thought Crime” Punishment:** With access to personal data and AI-powered tools, the government could identify people based on their potential to commit crimes or their political beliefs, leading to unjust preemptive arrests.
- **Discrimination:** Data could be used to unfairly target specific racial, ethnic, or socioeconomic groups under the guise of “security.”

5. Global Implications

- **Authoritarian Export:** Other governments may adopt similar practices, creating a global surveillance state.
- **Chilling Effect:** Knowing every online action is monitored could discourage activism, innovation, or even normal online socializing.

6. Blackmail and Extortion

Governments could use personal or embarrassing data against individuals to coerce them into compliance, whether they’re citizens, foreign leaders, or influential figures.

7. Long-Term Consequences

- **Loss of Trust:** People might lose trust in technology entirely, leading to a breakdown of global communication and cooperation.
- **Entrenched Inequality:** Surveillance tools could reinforce power imbalances, where elites or governments have unchecked control over the populace.

In essence, such a scenario would create a dystopian society where individuals lose autonomy, freedom, and the ability to dissent, leading to a climate of fear and oppression. While this is the extreme end of possibilities, it underscores the importance of transparency, accountability, and ethical practices in both government and technology.



Low-Intensity Conflict and Modern Technology

LT COL DAVID J. DEAN, USAF
Editor

With a Foreword by
CONGRESSMAN NEWT GINGRICH

Air University Press
Center for Aerospace Doctrine, Research, and Education
Maxwell Air Force Base, Alabama

June 1986

POTENTIAL MILITARY APPLICATIONS OF EMR

The exploitation of this technology for military uses is still in its infancy and only recently has been recognized by the United States as a feasible option. A 1982 Air Force review of biotechnology had this to say:

Currently available data allow the projection that specially generated radiofrequency radiation (RFR) fields may pose powerful and revolutionary antipersonnel military threats. Electroshock therapy indicates the ability of induced electric current to completely interrupt mental functioning for short periods of time, to obtain cognition for longer periods and to restructure emotional response over prolonged intervals.



Experience with electroshock therapy, RFR experiments and the increasing understanding of the brain as an electrically mediated organ suggested the serious probability that impressed electromagnetic fields can be disruptive to purposeful behavior and may be capable of directing and/or interrogating such behavior. Further, the passage of approximately 100 milliamperes through the myocardium can lead to cardiac standstill and death, again pointing to a speed-of-light weapons effect.

A rapidly scanning RFR system could provide an effective stun or kill capability over a large area. System effectiveness will be a function of wave form, field intensity, pulse widths, repetition frequency, and carrier frequency. The system can be developed using tissue and whole animal experimental studies, coupled with mechanisms and waveform effects research.

Using relatively low-level RFR, it may be possible to sensitize large military groups to extremely dispersed amounts of biological or chemical agents to which the unirradiated population would be immune.¹

THE ELECTROMAGNETIC SPECTRUM IN LIC

The potential applications of artificial electromagnetic fields are wide ranging and can be used in many military or quasi-military situations.

Some of these potential uses include dealing with terrorist groups, crowd control, controlling breaches of security at military installations, and antipersonnel techniques in tactical warfare. In all of these cases the EM systems would be used to produce mild to severe physiological disruption or perceptual distortion or disorientation. In addition the ability of individuals to function could be degraded to such a point that they would be combat ineffective. Another advantage of electromagnetic systems is that they can provide coverage over large areas with a single system. They are silent and countermeasures to them may be difficult to develop. Assuming that electromagnetic radiation can be controlled to produce a specific adverse biological effect, the equal possibility exists that one can produce a beneficial effect such as enhancing the performance of individuals. This development would provide personnel with enhanced capabilities in time of need. For example, if a small force is required to operate in isolation for an extended period of time, then local exposure to the right parameters of electromagnetic radiation may give this force the ability to do so with minimal rest and still maintain peak performance. One last area where electromagnetic radiation may prove to be of some value is in enhancing abilities of individuals for anomalous phenomena.



Michael Aquino, a former U.S. Army officer and psychological operations (PSYOP) expert, co-authored a paper titled "From PSYOP to MindWar: The Psychology of Victory" with Colonel Paul E. Valley in 1980. This paper explores unconventional methods of psychological warfare aimed at influencing the minds and behavior of enemy populations, as well as broader applications of these techniques.

Here are the key points related to Aquino's ideas on ionizing radiation and Extremely Low Frequency (ELF) waves:

1. MindWar Concept:

- Aquino and Valley's concept of MindWar differs from traditional PSYOP by emphasizing the direct influence on the minds and emotions of adversaries, not just through propaganda or psychological operations but by leveraging advanced technologies and psychological techniques.

2. Ionizing Radiation and ELF Waves:

- The paper discusses the theoretical use of ionizing radiation and ELF waves as part of MindWar. These technologies are suggested to have potential applications in altering human psychological states and behavior.

- Ionizing Radiation: Typically associated with high-energy radiation that can remove tightly bound electrons from atoms, ionizing radiation has significant biological effects. However, its use as a psychological control tool is highly speculative and lacks substantial scientific backing.

- ELF Waves: Extremely Low Frequency waves are a type of electromagnetic radiation with frequencies from 3 to 30 Hz. The paper hypothesizes that ELF waves could influence brain waves and potentially affect mood, cognition, and behavior. This idea is based on the notion that the human brain operates within certain low-frequency ranges, and external ELF waves might interfere with or modulate these brain waves.

3. Scientific and Ethical Concerns:

- The claims made about ionizing radiation and ELF waves influencing human minds remain highly controversial and speculative. There is limited scientific evidence supporting the idea that these technologies can be reliably used for mind control.

- Ethical concerns arise from the potential misuse of such technologies. The idea of manipulating human behavior through these means raises significant moral and legal issues, particularly regarding consent and human rights.

4. Practical Implications:

- While the concepts discussed in "From PSYOP to MindWar" are intriguing, they largely remain in the realm of theoretical exploration. The practical implementation of these ideas has not been demonstrated or widely accepted within the scientific or military communities.

- The paper reflects a period of Cold War-era exploration of unconventional and often speculative methods of warfare, emphasizing psychological and technological dominance.

In summary, Michael Aquino's "From PSYOP to MindWar" paper discusses the potential use of ionizing radiation and ELF waves for psychological influence, but these ideas remain speculative and controversial, with limited scientific validation. The ethical implications of such technologies also pose significant challenges.

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Yes, the term "Zersetzung" refers to psychological warfare tactics used by the East German secret police, the Stasi, to undermine and destabilize perceived enemies of the

state. These tactics included extensive surveillance, harassment, and psychological manipulation aimed at creating confusion, fear, and isolation among targets.

Zersetzung, which translates to “decomposition” or “corrosion,” was designed to disrupt the lives of individuals in such a way that they would become socially and psychologically compromised without any overt or traceable actions by the state.

Tactics included:

1. Surveillance and Infiltration: Constant monitoring of targets’ activities, often with the involvement of neighbors, friends, and even family members.
2. Harassment: Subtle and overt acts to disorient and destabilize the target. This could include spreading false rumors, manipulating relationships, and causing friction at work or in social circles.
3. Psychological Manipulation: Efforts to create paranoia and doubt, such as tampering with personal items, rearranging furniture, or leaving suggestive items in the target’s environment.
4. Isolation: Systematic efforts to isolate the target from their support networks by sowing distrust and suspicion.

The concept of “gangstalking” in contemporary times draws parallels with Zersetzung, suggesting a coordinated effort by groups to harass and intimidate individuals through similar means of surveillance, harassment, and psychological tactics.

Zersetzung represents one of the more documented and historically significant uses of such tactics, showcasing the lengths to which authoritarian regimes may go to maintain control and suppress dissent.

Operation Sunrise and Project Paperclip were both significant operations that took place during and after World War II, involving the United States and Nazi Germany. While they

are often discussed in similar contexts, they were distinct operations with different goals.

Operation Sunrise:

- **Timeframe:** Late in World War II, in 1945, just before the war in Europe officially ended.
- **Objective:** The goal of Operation Sunrise was to negotiate a secret surrender of Nazi forces in Northern Italy to the Allies, in order to avoid further bloodshed and prevent Soviet forces from advancing into the region.
- **Key Players:**
 - The operation was mainly a series of covert negotiations between German SS officers and representatives from the Allied forces (primarily the United States and Great Britain).
 - The key figure on the German side was General SS Karl Wolff, a senior SS officer, while on the Allied side, the American diplomat Allen Dulles (later head of the CIA) played a significant role.
- **Details:**
 - In the final days of the war, both the Allies and the Axis were trying to ensure the best possible post-war positions. While the Allies were focused on defeating the German military, Wolff and other Nazi leaders sought to make deals that would reduce the power of the advancing Soviet forces.
 - The operation led to the surrender of German forces in Italy to the Allies in early 1945, specifically in the area of Northern Italy, which was a key victory for the Allies.
 - **Controversy:** The negotiations involved elements of collaboration with high-ranking Nazi officials, which was controversial, as it allowed certain Nazis to avoid punishment and facilitated the evacuation of Nazi war criminals to escape justice.

Project Paperclip:

- **Timeframe:** The operation started in 1945 and continued into the early 1950s, after World War II ended.
- **Objective:** Project Paperclip was a covert operation led by the U.S. government to recruit scientists, engineers, and technicians from Nazi Germany, many of whom were key figures in developing Nazi Germany's advanced technology, including rocket science and weapons development.
- **Key Players:**
 - The project primarily involved recruiting German scientists, including Wernher von Braun, a key figure in the development of Germany's V-2 rocket program, who later became a prominent figure in the U.S. space program.
- **Details:**
 - Following the end of WWII, the United States sought to capitalize on Germany's technological advancements, especially in rocketry and weapons development, during the Cold War. As a result, the U.S. military and intelligence agencies brought these German scientists to the U.S. under Operation Paperclip.
 - Many of these scientists had previously been members of the Nazi Party and had worked on projects that supported the Nazi war effort, including the V-2 rocket program, which had been used to bomb Allied cities.
 - The U.S. government, under the pressure of the emerging Cold War and the desire to outpace the Soviet Union in technological advancements, often overlooked the scientists' Nazi affiliations and potential war crimes.
- **Notable Figures:**
 - **Wernher von Braun:** He became one of the most famous figures associated with Project Paperclip, ultimately contributing to the development of the Saturn V rocket that enabled the U.S. to land on the Moon in 1969.

- Kurt Debus: A former German scientist who became a key figure in NASA's space program.
- Hubertus Strughold: Known as the "father of space medicine," he was involved in experiments related to human survival in space.
- Controversy: The operation raised ethical concerns, as many of the recruited scientists had been involved in or had knowledge of the atrocities committed by the Nazi regime, including the use of forced labor and other war crimes. Despite this, they were granted immunity and given prominent positions within U.S. scientific and military programs.

Summary of Key Differences:

Operation Sunrise Project Paperclip

Purpose: Negotiation for the surrender of Nazi forces in Italy to the Allies during WWII.

Purpose: Recruitment of German scientists and engineers to work for the U.S. after WWII.

Key Players: Nazi officials (e.g., Karl Wolff), U.S. diplomats (e.g., Allen Dulles). Key

Players: German scientists (e.g., Wernher von Braun), U.S. military and intelligence agencies.

Timeframe: 1945, during the final days of WWII. Timeframe: Post-WWII, starting in 1945 and continuing into the 1950s.

Outcome: Surrender of German forces in Northern Italy, minimizing further conflict in the region. Outcome: Recruitment of key German scientists for U.S. military and space programs, particularly in rocketry.

Controversy: Collaboration with high-ranking Nazi officials to secure a strategic surrender, allowing Nazis to escape justice. Controversy: Ethical concerns over recruiting scientists with Nazi affiliations and overlooking their wartime activities.

In essence, Operation Sunrise was a strategic effort to secure a Nazi surrender, while Project Paperclip was a covert recruitment operation that brought Nazi scientists into U.S. scientific and military programs. Both operations are controversial in retrospect, as they involved collaboration with individuals who had been part of the Nazi regime.

Operation Sunrise	Project Paperclip
Purpose: Negotiation for the surrender of Nazi forces in Italy to the Allies during WWII.	Purpose: Recruitment of German scientists and engineers to work for the U.S. after WWII.
Key Players: Nazi officials (e.g., Karl Wolff), U.S. diplomats (e.g., Allen Dulles).	Key Players: German scientists (e.g., Wernher von Braun), U.S. military and intelligence agencies.
Timeframe: 1945, during the final days of WWII.	Timeframe: Post-WWII, starting in 1945 and continuing into the 1950s.
Outcome: Surrender of German forces in Northern Italy, minimizing further conflict in the region.	Outcome: Recruitment of key German scientists for U.S. military and space programs, particularly in rocketry.
Controversy: Collaboration with high-ranking Nazi officials to secure a strategic surrender, allowing Nazis to escape justice.	Controversy: Ethical concerns over recruiting scientists with Nazi affiliations and overlooking their wartime activities.

Eugenics is the belief in improving the genetic quality of a human population by promoting certain traits and reducing the prevalence of others. It has historically involved selective breeding, sterilization, and, in extreme cases, extermination programs. Eugenics has been practiced in various forms, from forced sterilization laws in the U.S. and Europe to the Nazi racial policies of the 20th century.

Eugenics & Population Control

Eugenics and population control often intersect in controversial ways:

1. **Selective Reproduction** – Governments or groups may encourage or discourage reproduction based on perceived genetic “fitness,” which can lead to policies that reduce population growth among certain groups.
2. **Forced Sterilization** – Many eugenics programs have involved sterilizing people deemed “unfit” to reproduce, often targeting minorities, people with disabilities, and the poor. Examples include the U.S. sterilization programs in the early 20th century and similar policies in Sweden, Canada, and India.

3. Contraception & Family Planning Policies – Some population control measures have been linked to eugenic ideas, such as China's One-Child Policy, which sometimes involved forced abortions and sterilizations.
4. Genetic Engineering & CRISPR – Modern discussions on genetic modification for "improving" human traits raise ethical concerns about a new form of eugenics, potentially shaping population demographics based on genetic desirability.
5. Coercion & Social Pressure – Some governments or organizations use economic incentives or restrictions to encourage specific groups to have fewer children, reinforcing social hierarchies tied to race, class, or ability.

The Pentagon Is Building a Fleet of Tiny Spy Satellites

The goal is the ability to deploy small fleets of inexpensive satellites to support the U.S. military.

BY [KYLE MIZOKAMI](#) PUBLISHED: MAY 14, 2020 10:05 AM EDT

SAVE ARTICLE



DARPA

- The Pentagon wants mesh networks of small satellites capable of replacing its larger, more expensive satellites.
- Project Blackjack's satellites would replace one satellite with many, making for a more resilient system in wartime.
- The first test satellites will launch in 2021.

RAMEN SKIBBA

SCIENCE AUG 14, 2023 7:00 AM

The Space Force Is Launching Its Own Swarm of Tiny Satellites

Defense satellites used to be big, costly, and “juicy” targets for attack. Now the Pentagon is aiming for a more resilient network of nearly 1,000 mini orbit



intelligence, surveillance, and reconnaissance capabilities," the agency [said on Thursday](#).

The satellites have advanced remote-sensing capabilities to give real-time data on military enemy movements and other intelligence to support U.S. operations. The NRO launched six missions last year and including Thursday's launch has five more on the horizon in 2025.

"The NRO continues to build and fortify the largest government constellation in history, with proliferated launches continuing through 2028," the NRO [said pre-launch](#).

"Having hundreds of NRO satellites in

The SpaceX Falcon 9 rocket launched the NROL-153 mission into space late Thursday from the Vandenberg Space Force Base in California with "classified payloads."

Jan. 10 (UPI) -- [SpaceX](#) launched new spy satellites into lower Earth orbit for the National Reconnaissance Office, adding to the growing constellation of such U.S.-based intelligence-gathering satellites around the world.

SCIENCE NEWS

SpaceX launches new round of spy satellites for NRO

JAN. 10, 2025 / 8:40 AM



Electronic Telepathy Patents

Method and Device for Implementing the Radio Frequency Hearing Effect:

Patent #: US6470214 B1

Apparatus for Audibly Communicating Speech Using the Radio Frequency Hearing Effect:

Patent #: US6587729 B2

[RF Energy] Hearing Systems:

Patent #: US3628521 A

Microwave Hearing Device:

Patent #: US4858612 A

[Microwave] Hearing System:

Patent #: US4877027 A

Apparatus and Method for Remotely Monitoring and Altering Brain Waves:

Patent #: US3951134 A



US006506148B2

United States Patent

Loos

(10) Patent No.: **US 6,506,148 B2**
(45) Date of Patent: **Jan. 14, 2003****(54) NERVOUS SYSTEM MANIPULATION BY ELECTROMAGNETIC FIELDS FROM MONITORS**(76) Inventor: **Hendricus G. Loos**, 3019 Cresta Way, Laguna Beach, CA (US) 92651

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 8 days.

(21) Appl. No.: **09/872,528**(22) Filed: **Jun. 1, 2001****(65) Prior Publication Data**

US 2002/0188164 A1 Dec. 12, 2002

(51) Int. Cl.⁷ **A61N 2/00; A61B 5/04; A61M 21/00**(52) U.S. Cl. **600/27; 600/545**(58) Field of Search **600/9-27, 545; 313/419; 324/318; 378/901; 434/236****(56) References Cited****U.S. PATENT DOCUMENTS**

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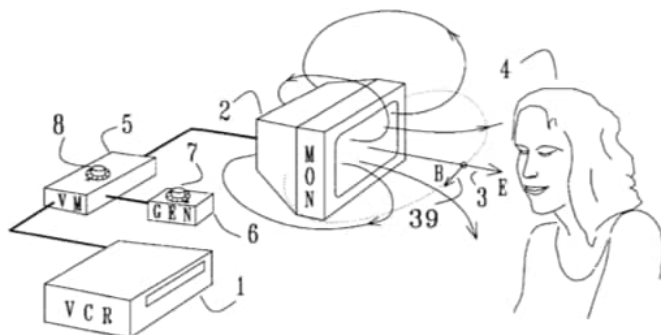
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Primary Examiner—Eric F. Winakur

Assistant Examiner—Nikita R Veniaminov

(57) ABSTRACT

Physiological effects have been observed in a human subject in response to stimulation of the skin with weak electromagnetic fields that are pulsed with certain frequencies near 1/2 Hz or 2.4 Hz, such as to excite a sensory resonance. Many computer monitors and TV tubes, when displaying pulsed images, emit pulsed electromagnetic fields of sufficient amplitudes to cause such excitation. It is therefore possible to manipulate the nervous system of a subject by pulsing images displayed on a nearby computer monitor or TV set. For the latter, the image pulsing may be imbedded in the program material, or it may be overlaid by modulating a video stream, either as an RF signal or as a video signal. The image displayed on a computer monitor may be pulsed effectively by a simple computer program. For certain monitors, pulsed electromagnetic fields capable of exciting sensory resonances in nearby subjects may be generated even as the displayed images are pulsed with subliminal intensity.

14 Claims, 9 Drawing Sheets

US006091994A

United States Patent [19]

Loos

[11] Patent Number: **6,091,994**[45] Date of Patent: ***Jul. 18, 2001****(54) PULSATIVE MANIPULATION OF NERVOUS SYSTEMS**(76) Inventor: **Hendricus G. Loos**, 3019 Cresta Way, Laguna Beach, Calif. 92651

(*) Notice: This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/144,762**(22) Filed: **Aug. 31, 1998****Related U.S. Application Data**

(63) Continuation-in-part of application No. 08/580,346, Dec. 28, 1995, Pat. No. 5,800,481.

(51) Int. Cl.⁷ **A61F 2/00**(52) U.S. Cl. **607/100**(58) Field of Search **607/96-98, 100-102, 607/115, 148, 152; 600/552-558****(56) References Cited****U.S. PATENT DOCUMENTS**

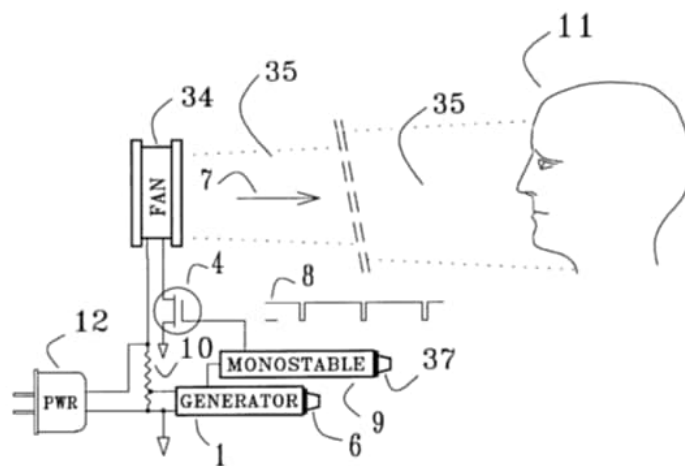
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Primary Examiner—Cary O'Connor
Assistant Examiner—Ryan Carter**[57] ABSTRACT**

Method and apparatus for manipulating the nervous system by imparting subliminal pulsative cooling to the subject's skin at a frequency that is suitable for the excitation of sensory resonance. At present, two major sensory resonances are known, with frequencies near 1/2 Hz and 2.4 Hz. The 1/2 Hz sensory resonance causes relaxation, sleep, or sexual excitement, depending on the precise frequency used. The 2.4 Hz resonance causes the slowing of cortical activities, and is characterized by a large increase in the time needed to silently count backward from 100 to 0 with the eyes closed. The invention can be used by general public for inducing relaxation, sleep, or sexual excitement, and clinically for the control and perhaps treatment of tremors, seizures, and autonomic system disorders such as panic attacks. Embodiments shown are a pulsed fan to impart subliminal cooling pulses to the subject's skin, and a silent device which induces periodic varying flow past the subject's skin, the flow being induced by pulsative rising warm air plumes that are caused by a resistive wire which is periodically heated by electric current pulses.

12 Claims, 5 Drawing Sheets

scientifically.” Also according to Farwell: “The brain never lies.”

Guilt or innocence, then, can be determined simply by reading the suspect’s mind. This ingenious concept has been embraced by, not surprisingly, all the usual suspects. As Wallace noted: “Dr. Farwell’s work has been funded by the CIA,” and “the FBI is also interested in Brain Fingerprinting and has allowed Dr. Farwell to test his technology at the Bureau’s training academy in Quantico, Virginia.”



From PSYOP to MindWar: The Psychology of Victory

- by -
Colonel Paul E. Valley
Commander

- with -
Major Michael A. Aquino
PSYOP Research & Analysis Team Leader

Headquarters, 7th Psychological Operations Group
United States Army Reserve
Presidio of San Francisco, California
1980

- 2 -

Introduction

- by Michael A. Aquino
Lt. Colonel, Military Intelligence, USAR-Ret
November 2003

In the later 1970s, Psychological Operations (PSYOP) doctrine in the U.S. Army had
not to emerge from the disappointment and frustration of the Vietnam War. There is no

¹⁸ Cf. John Marks, *The Search for the "Manchurian Candidate"*. New York: Times Books, 1979.

- 10 -

phenomena as atmospheric electromagnetic activity¹⁹, air ionization²⁰, and extremely low frequency waves²¹.

At the root of any decision to institute MindWar in the U.S. defense establishment is a very simple question: Do we wish to win the next war in which we choose to become involved, and do we wish to do so with minimum loss of human life, at minimum expense, and in the least amount of time? If the answer is yes, then MindWar is a necessity. If we wish to trade that kind of victory for more American lives, economic disaster, and negotiated stalemates, then MindWar is inappropriate, and if used superficially will actually contribute to our defeat.

In MindWar there is no substitute for victory.²²

¹⁹ **Atmospheric electromagnetic (EM) activity:** The Human body communicates internally by EM and electrochemical impulses. The EM field displayed in Kirlian photographs, the effectiveness of acupuncture, and the body's physical responses to various types of EM radiation (X-rays, infrared radiation, visible light spectra, etc.) are all examples of human sensitivity to EM forces and fields. Atmospheric EM activity is regularly altered by such phenomena as sunspot eruptions and gravitational stresses which distort the Earth's magnetic field. Under varying external EM conditions, humans are more or less disposed to the consideration of new ideas. MindWar should be timed accordingly. Per Dr. L.J. Ravitz:

Electromagnetic field constructs add fuel to the assumption unifying living matter harmoniously with the operations of nature, the expression of an electromagnetic field no less than non-living systems; and that as points on spectrums, these two entities may at last take their positions in the organization of the universe in a way both explicable and rational ... A tenable theory has been provided for emergence of the nervous system, developing not from functional demands, but instead deriving as a result of dynamic forces imposed on cell groups by the total field pattern. Living matter on has a definition of state based on relativity field physics, through which it has been possible to detect a measurable property of total state functions. (Ravitz, State-Function, Including Hypnotic States" in *Journal of American Society of Psychosomatic Dentistry and Medicine*, Vol. 17, No. 4, 1970.)

²⁰ **Ionization of the air:** An abundance of negative condensation nuclei ("air ions") in ingested air enhances alertness and exhilaration, while an excess of positive ions enhances drowsiness and depression. Calculation of the ionic balance of a target audience's atmospheric environment will be correspondingly useful. Again this is a naturally-occurring condition - caused by such varying agents as solar ultraviolet light, lightning, and rapidly-moving water - rather than one which must be artificially created. (Detonation of nuclear weapons, however, will alter atmospheric ionization levels.) Cf. Soyke, Fred and Edmonds, Alan, *The Ion Effect*. New York: E.P. Dutton, 1977.

²¹ **Extremely Low Frequency (ELF) waves:** ELF waves up to 100 Hz are once more naturally occurring, but they can also be produced artificially (such as for the Navy's Project Sanguine for submarine communication). ELF-waves are not normally noticed by the unaided senses, yet their resonant effect upon the human body has been connected to both physiological disorders and emotional distortion. Infrasound vibration (up to 20 Hz) can subliminally influence brain activity to align itself to *delta*, *theta*, *alpha*, or *beta* wave patterns, inclining an audience toward everything from alertness to passivity. Infrasound could be used tactically, as ELF-waves endure for great distances; and it could be used in conjunction with media broadcasts as well. See Playfair, Guy L. and Hill, Scott, *The Cycles of Heaven*. New York: St. Martin's Press, 1978, pages 130-140.

²² [MA2003] After General of the Army Douglas MacArthur's famous aphorism: "In war there is no substitute for victory."



Chainless Slaves Trauma Programming

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